

TC-CG Series

Shin-Etsu Silicones of America, Inc.
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Product Description

Shin-Etsu's TC-CG series pads are thermally conductive pads designed to thermally connect electronic components to their heat sinks. The TC-CG series pads are general purpose pads with fiberglass reinforcement for superior strength and hardness.

Product Features

- Excellent thermal conductivity
- 0.20, 0.30, 0.45, and 0.80mm thicknesses available
- Excellent electrical properties
- Superior strength and hardness

Typical Applications

- Vehicle inverters/converters
- Power Transistors
- Power Modules
- LED Modules

Typical Properties

Type	High Hardness Thermal Pads
UL Listing	Y
Low Molecular Weight Siloxane Stripped?	Y
Color	Light Reddish Brown
Density @ 23C (g/cm ³)	2.50
Shore A Hardness	90
Tensile Strength (MPa)	24.10
Tear Strength (kN/m)	81.0
Volume Resistivity (TΩ·m)	1.800
Dielectric Strength (kV/mm)	23.0
Dielectric Dissipation Factor	6x10 ⁻³ @ 50Hz
Dielectric Constant	4.2 @ 50Hz
Thermal Conductivity (W/m·K)	1.70
Thermal Resistance (C/W)	1.39
Usable Temp. Range (C)	-40 to +180
Thickness (mm)	0.30
Reinforced Layer	Fiberglass
Sheet Size (mm)	320 x 1000

Note: Values are not for specification purposes.

Physical properties are typical for the thickness given. Other thicknesses may have slightly varying properties and are available upon request.

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